



FortiGate® 3200D

Data Center Firewall with
High Density 10 GE Interfaces



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The FortiGate 3200D next generation firewall delivers exceptional performance, deployment flexibility and extensive security features, to protect the most demanding network environments. This device is ideally suited for network segmentation and internal network threat protection in data centers with its 48 10 GE interfaces.

Future-proof Security

The FortiGate 3200D Data Center firewall allows you to deploy the right blend of essential hardware-accelerated security technologies and high-density high-speed interfaces now and in the future to meet your evolving network requirements. The system also provides technologies that include robust networking capabilities, firewall, VPN, intrusion prevention, application control and more, all managed from a 'single pane of glass' management console, enabling you to keep pace with your evolving network.

In addition, the FortiGate 3200D can be deployed as an enterprise class wireless controller and endpoint security manager that can future consolidate and simplified growing data centers.

Key Features & Benefits

Consolidated Security Architecture	FortiGate consolidated security offers better protection and lower cost of ownership than multiple point security products. It also dramatically reduces network complexity.
High Port Density	Facilitates flexible deployment of network segments and promotes network expansion and high availability configurations.
Powered by FortiASICs	Hardware components that empowers the systems to provide more security without significantly compromising performance.

Performance and Security for demanding Data Center Networks

- Firewall with superior best-in-class price-performance ratio
- High port density delivers maximum flexibility and scalability
- Strong security options against today's evolving threats and for compliance requirements.

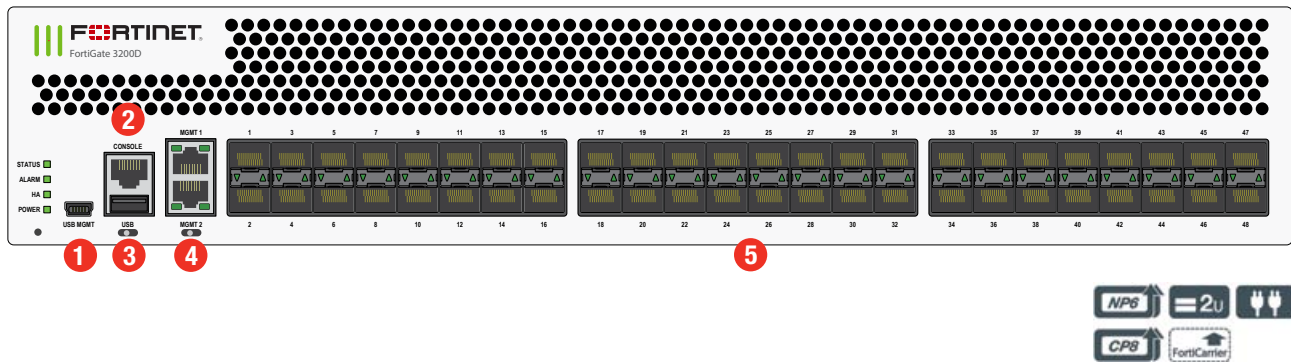


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HARDWARE



Interfaces

- | | |
|------------------------|----------------------------------|
| 1. USB Management Port | 4. 2x GE RJ45 Management Ports |
| 2. USB Port | 5. 48x 10 GE SFP+ / GE SFP Slots |
| 3. Console Port | |



Powered by FortiASICs

- Custom FortiASIC™ processors deliver the power you need to detect malicious content at multi-Gigabit speeds
- Other security technologies cannot protect against today's wide range of content- and connection-based threats because they rely on general-purpose CPUs, causing a dangerous performance gap
- FortiASIC processors provide the performance needed to block emerging threats, meet rigorous third-party certifications, and ensure that your network security solution does not become a network bottleneck

Network Processor

Fortinet's new, breakthrough FortiASIC NP6 network processor works inline with FortiOS functions delivering:

- Superior firewall performance for IPv4/IPv6, SCTP and multicast traffic with ultra-low latency down to 2 microseconds
- VPN, CAPWAP and IP tunnel acceleration
- Anomaly-based intrusion prevention, checksum offload and packet defragmentation
- Traffic shaping and priority queuing

Content Processor

The FortiASIC CP8 content processor works outside of the direct flow of traffic, providing high-speed cryptography and content inspection services including:

- Signature-based content inspection acceleration
- Encryption and decryption offloading

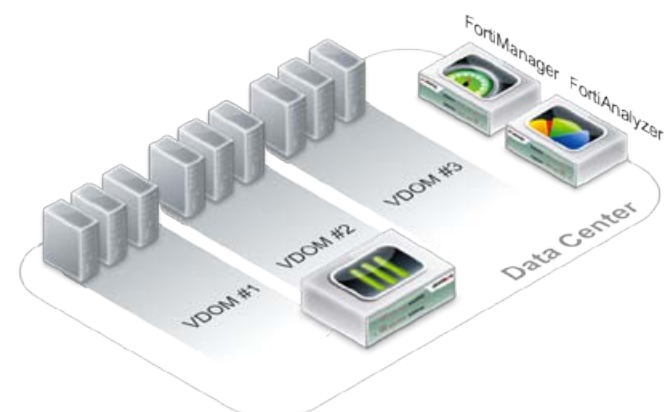
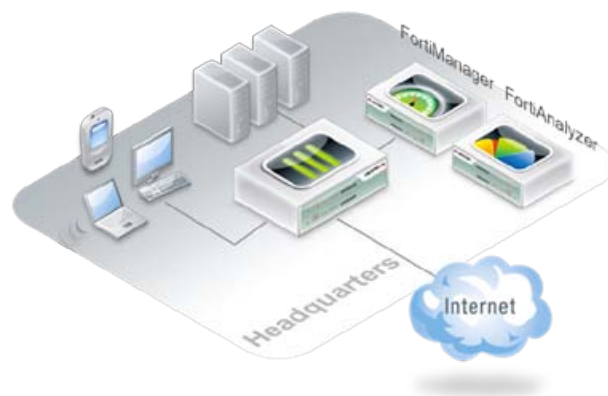
10 GE Connectivity for Network Segmentation

High speed connectivity is essential for network security segmentation at the core of data networks. The FortiGate 3200D provides the highest 10 GE port densities in the market, simplifying network designs without relying on additional devices to bridge desired connectivity.

DEPLOYMENT

Next Generation Perimeter Security

Firewalls alone aren't enough to block today's blended threats and attacks. Data centers require multi-layered security technologies that examine entire packet flows, from content inspection through reassembly, stopping threats at the perimeter. The FortiGate 3200D offers these critical functionality without compromising performance and scalability.

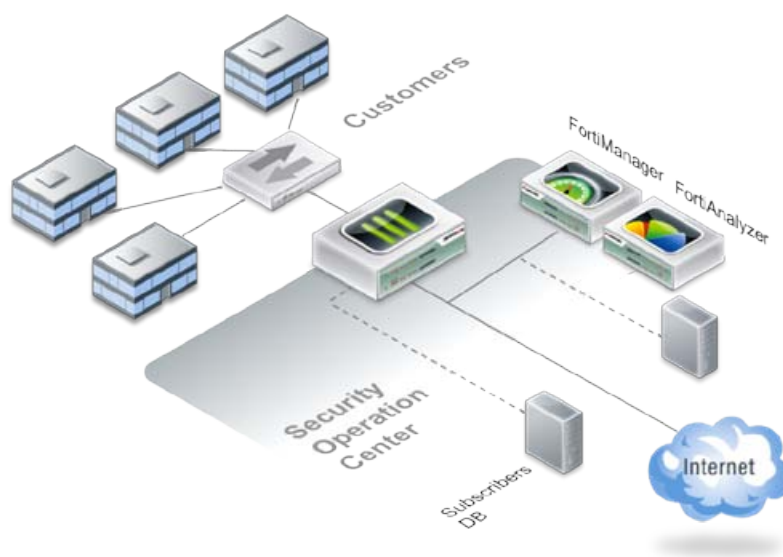


Data Center Core Security

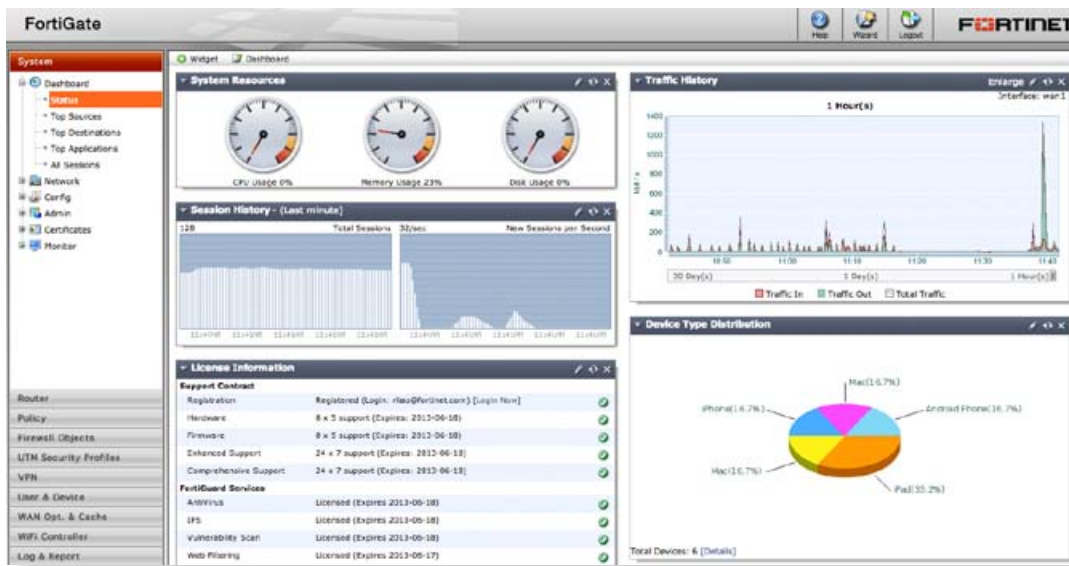
Today's high-speed data centers require not only perimeter security but also network protection between various network segments at the core. The FortiGate 3200D meets the requirement as a security gateway with superior next generation firewall performance and features. High density 10 G interfaces allow connectivity between the segments without the need of bridging devices.

MSSP Solution

The FortiGate 3200D delivers comprehensive security for Managed Security Service Providers (MSSPs). The full suite of Fortinet integrated management applications — including granular reporting features — offer unprecedented visibility into the security posture of customers while identifying their highest risks.



SOFTWARE FEATURES



FortiOS Dashboard — Single Pane of Glass Management

Unique Visibility and Control

FortiOS allows greater traffic visibility and more consistent, granular control over users, devices, applications and sensitive data. Dashboard widgets allow you to quickly view and understand real-time network activities and threat situations.

Ease of Use

FortiOS lowers operational costs and reduces IT staff workload. Single pane of glass management and centralized analysis ensure consistent policy creation and enforcement while minimizing deployment and configuration challenges.

Comprehensive Systems Integration

Integration with external systems are possible with wide range of interfacing protocols support and certified solution partners. You can rely on facilities such as SNMP, sFlow and syslog for monitoring purposes. Integration with provisioning systems and custom portals is possible with Web Service APIs via FortiManager. Scripting using various scripting languages is supported by manipulating CLI commands.

Proven with Industry Validation

FortiGate holds more industry certifications than competitive products, assuring feature quality and providing you best-of-breed protection.

Robust Virtual Systems

FortiOS Virtual Domains (VDMs) is proven method of dividing a FortiGate unit/cluster into two or more virtual units that function as independent units. It has the industry's most comprehensive virtualization capabilities to meet today's complex MSSP deployments.

Identity-Centric Enforcement

FortiOS supports both local and remote authentication services such as LDAP, RADIUS and TACACS+ to identify users and apply appropriate access policies and security profiles accordingly. It can simplify identity based implementations and provide a seamless user authorization experience with single sign-on capabilities. FortiOS has strong PKI and certificate-based authentication services while also integrating an internal two-factor authentication server for additional security.

SOFTWARE FEATURES

Extensive Network Support

FortiOS meets numerous network design requirements. A wealth of routing, multicasting and network resiliency protocols are supported for interoperating with other networking devices.

Superior IPS capabilities

Over 4000 IPS signatures enables you to stop attacks that evade more conventional firewalls. Behavior-based heuristics recognize zero day threats for which no signature has been created.

Application Control

Advanced application control lets you define and enforce policies for thousands of applications running across networks regardless of port or the protocol used for communication.

Powerful Policy Management

Two types of policy management views — global and section view — are available to suit your preferences. Policy objects can be easily edited from the policy table. Available management features include policy object search, tagging, sorting and filtering.

With FortiManager integration, you have the ability to set up sophisticated policy implementation and provisioning workflows to meet compliance or operational requirements. FortiAnalyzer enables complete and accurate configuration audit trails to reside externally for secured storage.

Flexible Role-based Administration

Access profiles can be defined to provide granular access to VDOMs and system functionalities. This is valuable in facilitating compliant enterprise-class security operation workflows.

Beyond Next Generation Firewall Capabilities

FortiOS supports various value-adding components to the network that is unique in the market. This includes in-box token server, wireless controller and vulnerability scanner. These features simplify network design and deployment while also providing more secure implementations without incurring additional cost.

Broad IPv6 Support

Maintaining security for both IPv4 and IPv6 traffic will be crucial to the success of mixed networks. Malware and network threats are independent of IPv4 or IPv6. FortiOS is able to use IPv6 security policies to provide access control and UTM protection for IPv6 traffic. FortiOS has been successfully evaluated as compliant with core protocol and interoperability tests defined by IPv6 Ready Logo Phase 2.

World-Class Technical Support and Documentation

Fortinet FortiCare support offerings provide comprehensive global support for all Fortinet products and services. You can rest assured your Fortinet security products are performing optimally and protecting your users, applications, and data around the clock.

More Features with FortiCarrier Software License

- SIP/IMS signaling firewall protects internal infrastructure and service against malicious messages and overload while providing NAT services and redundancy, providing VoIP edge scalability and a platform for managed security services
- MMS security — content scanning and protection (keyword blocking, antivirus, file-type blocking, antispam detection) with per-user services provide enhanced end-user security for increased uptime and higher customer satisfaction
- GTP firewall delivers protocol anomaly detection and prevention with multiple filter options for end-to-end security

*For complete, up-to-date & detailed feature set, please refer to the Administration Handbook and FortiOS Datasheet

SPECIFICATIONS

FORTIGATE 3200D	
Interfaces and Modules	
10 GE SFP+ / GE SFP Slots	48
GE RJ45 Management Ports	2
USB Ports (Client / Server)	1 / 1
Console Port	1
Internal Storage	960 GB
Included Transceivers	2x SFP+ (SR 10GE)
System Performance and Capacity	
Firewall Throughput (1518 / 512 / 64 byte, UDP)	80 / 80 / 50 Gbps
IPv6 Firewall Throughput (1518 / 512 / 86 byte, UDP)	80 / 80 / 50 Gbps
Firewall Latency (64 byte, UDP)	3 µs
Firewall Throughput (Packet per Second)	75 Mpps
Concurrent Sessions (TCP)	50 Million
New Sessions/Sec (TCP)	280,000
Firewall Policies	100,000
IPsec VPN Throughput (512 byte)	50 Gbps
Gateway-to-Gateway IPsec VPN Tunnels	20,000
Client-to-Gateway IPsec VPN Tunnels	64,000
SSL-VPN Throughput	8 Gbps
Concurrent SSL-VPN Users (Recommended Maximum)	30,000
IPS Throughput	14 Gbps
Antivirus Throughput (Proxy Based / Flow Based)	5.7 / 16 Gbps
Virtual Domains (Default / Maximum)	10 / 500
Maximum Number of FortiAPs (Total / Tunnel Mode)	4,096 / 1,024
Maximum Number of FortiTokens	5,000
Maximum Number of Registered FortiClients	20,000
High Availability Configurations	Active / Active, Active / Passive, Clustering

FORTIGATE 3200D	
Dimensions amd Power	
Height x Width x Length (inches)	3.5 x 17.4 x 21.9 in
Height x Width x Length (mm)	88 x 442 x 555 mm
Weight	37.9 lbs (17.2 kg)
Form Factor	2 RU
AC Power Supply	100–240V AC, 50–60 Hz
Power Consumption (Average / Maximum)	350 W / 598 W
Heat Dissipation	2041 BTU/h
Redundant Power Supplies	Yes, Hot Swappable
Operating Environment and Certifications	
Operating Temperature	32–104°F (0–40°C)
Storage Temperature	-31–158°F (-35–70°C)
Humidity	20–90% non-condensing
Operating Altitude	Up to 7,400 ft (2,250 m)
Compliance	FCC Part 15 Class A, C-Tick, VCCI, CE, UL/cUL, CB
Certifications	ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN

Note: All performance values are "up to" and vary depending on system configuration. Antivirus performance is measured using 44 Kbyte HTTP files. IPS performance is measured using 1 Mbyte HTTP files. IPsec VPN performance is based on 512 byte UDP packets using AES-256+SHA1.

For complete, up-to-date and detailed feature set, please refer to the Administration Handbook and FortiOS Datasheet.

ORDER INFORMATION

Product	SKU	Description
FortiGate 3200D	FG-3200D	48x 10 GE SFP+ / GE SFP slots, 2x GE RJ45 Management, 960 GB SSD onboard storage, and dual AC power supplies.
Optional Accessories		
10 GE SFP+ Transceiver Module, Short Range	FG-TRAN-SFP+SR	10 GE SFP+ transceiver module, short range for all systems with SFP+ and SFP/SFP+ slots.
10 GE SFP+ Transceiver Module, Long Range	FG-TRAN-SFP+LR	10 GE SFP+ transceiver module, long range for all systems with SFP+ and SFP/SFP+ slots.
1 GE SFP LX Transceiver Module	FG-TRAN-LX	1 GE SFP LX transceiver module for all systems with SFP and SFP/SFP+ slots.
1 GE SFP RJ45 Transceiver Module	FG-TRAN-GC	1 GE SFP RJ45 transceiver module for all systems with SFP and SFP/SFP+ slots.
1 GE SFP SX Transceiver Module	FG-TRAN-SX	1 GE SFP SX transceiver module for all systems with SFP and SFP/SFP+ slots.
AC Power Supply	SP-FG3600C-PS	AC power supply for FG-3200D, FG-3600C and FG-3240C.



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